Comp 304
Project 2 - T Seconds Of Fame
Mehmet Üstek
Irmak Ilgaz

Running instructions:

Call on command prompt:

- g++ project2.cpp -o project2
- ./project2 -n 4 -p 0.75 -q 5 -t 3 -b 0.05 -lpthread
- Wait for the code to terminate. This will take 20-30 seconds, based on your input.
- Console will tell you the approximate running time.
- Check the log files.

Our code is based on a unique queue implementation, CommentatorQueue.

CommentatorQueue is responsible for assigning commentators to produce questions and answering them in an order, while the moderator waits for the answering phase to end. CommentatorQueue works as a monitor object that locks before each function and unlocks after function termination, that uses same mutex lock for each function.

Each part of our code works fine, with one exception of probability of breaking news is higher than 0.5. We could not particularly navigate this problem since it works normally when this probability is below 0.5.

Also there happens to be a segmentation fault problem at approximately each 10 running of the code. It is so rare, we could not understand where the problem is.

Example output files:

For example output screenshots, please check the zip file.

Acknowledgement:

We used many stackoverflow sources for this project. For example, log_time() function, random_double(), semaphore implementation etc. We also acknowledge that we analyzed the projects from previous years for implementation of monitor queues and were influenced by them. However, we certainly did not directly copy a code. We analyzed and understood these codes and used the parts that would work for us.

In this sense, we acknowledge that we used other's works from sources stated above, to learn and understand how we can reach the correct implementation for this project. However, the total work and implementation in this project totally belongs to us.